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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,148	01/12/2005	Paul A Cameron	118989-04313564	5706

7590 08/08/2006

Mayer Brown Rowe and Maw  
Intellectual Property Department  
1909 K Street N W  
Washington, DC 20006-1101

EXAMINER
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COONEY, JOHN M

ART UNIT	PAPER NUMBER
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1711

DATE MAILED: 08/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/505,148

Applicant(s)

CAMERON ET AL.

Examiner

John m. Cooney

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 May 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1 and 3-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

Applicant's arguments filed 5-5-06 have been fully considered but they are not persuasive.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 3-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vinches et al.(4,602,079) in view of Limerkens et al.(5,840,782).

Vinches et al. disclose preparations of polyurethane elastomers having good hydrolysis resistance based on the reaction of polyester polyols derived from the reaction of dimer fatty acids and other acids such as adipic acid with polyols such as diethylene glycol, polyisocyanate prepolymers prepared from isocyanates and the polyester polyols disclosed, and chain extenders, all employed for their reactive effects, wherein, further, elastomers prepared from isocyanate-terminated prepolymers based on the described polyester polyols are reacted with chain extenders to form shaped articles including shoe soles (see column 1 lines 25-31, column 3 line 23 – column 7 line 63, the examples, and the entire document). Vinches et al. provides for other

carboxylic acid in amounts meeting the ratios of the claims, and provides for the inclusion of trimer contents to the degrees claimed (column 4 lines 54-55).

Vinches et al. differs from the claims in that microcellular foam formation is not particularly recited. However, Limerkens et al. recites employment of water at time of reaction in the making of related polyurethane microcellular foams used in shoe soling applications for the purpose of imparting the foaming effect (see column 3 line 65 – column 4 line 24, as well as, the entire document). Accordingly, it would have been obvious for one having ordinary skill in the art to have employed water in the manner taught by Limerkens et al. in the preparation of the articles of Vinches et al. for the purpose of imparting cushioning and weight reducing effects to the articles realized in order to arrive at the products and processes of applicants' claims with the expectation of success in the absence of a showing of new or unexpected results.

Applicants' arguments have been considered but are unpersuasive and the rejection is maintained for the reasons set forth above. It is maintained that the references are properly combined for the reasons set forth above, and it is maintained that a prima facie case of obviousness has been established.

That the primary reference discloses provisions for the presence of some degree of water does not negate or overcome the rejection as set forth above. The secondary reference is looked to for teachings of means for enacting foaming in polyurethane elastomers to form microcellular foam structures. Whether the amounts of water included/allowed for in the preparations of Vinches et al. leads to formation of

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microcellular foam structures to some degree is not an issue set forth by the examiner in light of the fact that Vinches et al. is silent as to microcellularity and other cell structures in the articles of their invention. However, this disclosure of Vinches et al. does not negate the combinability of Vinches et al. with a reference which goes into the microcellular foam structure arising from the use of water and other blowing agents and the controls of density associated with their use.

Applicants' recitation of tensile strength retention values in their claims has been considered. However, based on difference in the make-up of the compositions claimed over those of Vinches et al. not being established, it is seen that these physical characteristics are qualities which would be possessed by the compositions disclosed by Vinches et al. Accordingly, such features of the claims are not seen to be differences under 35 USC 103. This recitation in the claims does not relieve applicants of their burden to demonstrate new or unexpected results attributable to the differences indicated in the rejection above which are commensurate in scope with the scope of the claims as they currently stand. At this time a sufficient showing of new or unexpected results has not been made evident.


Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Cooney whose telephone number is 571-272-1070. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck, can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
JOHN M. COONEY, JR.  
PRIMARY EXAMINER  
Group 1.700